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Pedro C. Diniz / Martin C. Rinard
November 1997 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 19 Issue 6
Publisher: ACM

Full text available: pdf(472.62 KB) Additional Information: full citation, abstract, references, cited by, index terms

This article presents a new analysis technique, commutativity analysis, for automatically parallelizing computations that manipulate dynamic, pointer-based data structures. Commutativity analysis views the computation as composed of operations on objects. ...

Keywords: parallel computing

2 Techniques for the translation of MATLAB programs into Fortran 90

Luiz De Rose, David Padua
March 1999 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 21 Issue 2
Publisher: ACM
Full text available: pdf(467.60 KB) Additional Information: full citation, abstract, references, cited by, index terms

This article describes the main techiques developed for FALCON's MATLAB-to-Fortran 90 compiler. FALCON is a programming environment for the development of high-performance scientific programs. It combines static and dynamic inference methods to translate ...

Keywords: MATLAB, array language compilation, inference

3 Automatic generation of program specifications

Jeremy W. Nimmer, Michael D. Ernst
July 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 4
Publisher: ACM
Full text available: pdf(154.41 KB) Additional Information: full citation, abstract, references, cited by

Producing specifications by dynamic (runtime) analysis of program executions is potentially unsound, because the analyzed executions may not fully characterize all possible executions of the program. In practice, how accurate are the results of a dynamic ...

4 Simultaneous reference allocation in code generation for dual data memory bank ASIPs

Ashok Sudarsanam, Sharad Malik
April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2
Publisher: ACM
Full text available: pdf(156.30 KB) Additional Information: full citation, abstract, references, cited by, index terms

We address the problem of code generation for DSP systems on a chip. In such systems, the amount of silicon devoted of program ROM is limited, so application software must be sufficiently dense. Additionally, the software must be written so as to meet ...

Keywords: code generation, code optimization, graph labelling, memory bank assignment, register allocation

5 Parallel multigrid solver for 3D unstructured finite element problems

Mark Adams, James W. Demmel

January 1999 — Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: pdf(803.64 KB) Additional Information: full citation, references, cited by, index terms

Keywords: parallel maximal independent sets, parallel sparse solvers, unstructured multigrid

6 Texture-based visibility for efficient lighting simulation

Cyril Soler, F. X. Sillion

October 2000 — ACM Transactions on Graphics (TOG), Volume 19 Issue 4

Publisher: ACM

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, cited by, index terms

Lighting simulations using hierarchical radiosity with clustering can be very slow when the computation of fine and artifact-free shadows is needed. To avoid the high cost of mesh refinement associated with fast variations of visibility across receivers, ...

Keywords: convolution, global illumination, hierarchical radiosity, texture-based visibility

7 Token-based scanning of source code for security problems

John Viega, J. T. Bloch, Tadayoshi Kohno, Gary McGraw

August 2002 — ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 3

Publisher: ACM

Full text available: pdf(221.51 KB) Additional Information: full citation, abstract, references, cited by, index terms

We describe ITS4, a tool for statically scanning C and C++ source code for security vulnerabilities. Compared to other approaches, our scanning technique stakes out a new middle ground between accuracy and efficiency. This method is efficient ...

Keywords: Buffer overflows, race conditions, security analysis

8 MuPad

Alasdair McAndrew
July 1999 Linux Journal, Volume 1999 Issue 63es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(51.86 KB) Additional Information: full citation, index terms

9 Tangler: a censorship-resistant publishing system based on document entanglements

Marc Waldman, David Mazières
November 2001 CCS '01: Proceedings of the 8th ACM conference on Computer and Communications Security
Publisher: ACM
Full text available: pdf(149.02 KB) Additional Information: full citation, abstract, references, cited by, index terms

We describe the design of a censorship-resistant system that employs a unique document storage mechanism. Newly published documents are dependent on the blocks of previously published documents. We call this dependency an *entanglement*. Entanglement ...

10 Automatic generation of program specifications

Jeremy W. Nimmer, Michael D. Ernst
July 2002 ISSTA '02: Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis
Publisher: ACM
Full text available: pdf(154.41 KB) Additional Information: full citation, abstract, references, cited by

Producing specifications by dynamic (runtime) analysis of program executions is potentially unsound, because the analyzed executions may not fully characterize all possible executions of the program. In practice, how accurate are the results of a dynamic ...

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